



SKID STEER LOADER COMPACT TRACK LOADER

**L180
L185
L190
C185
C190**

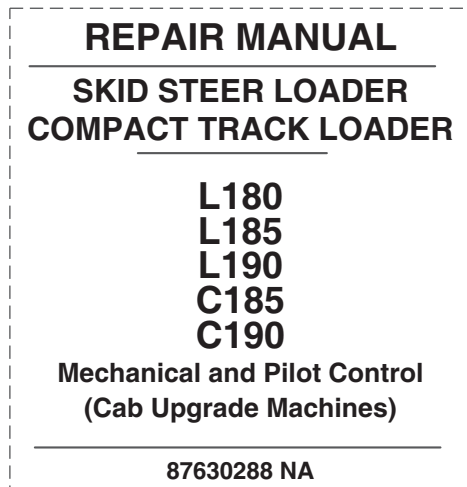
Mechanical and Pilot Control

(Cab Upgrade Machines)

REPAIR MANUAL

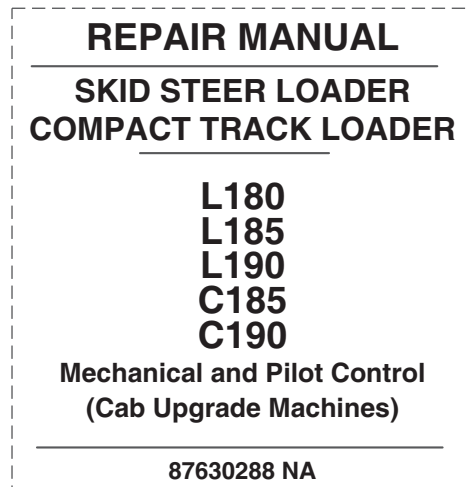
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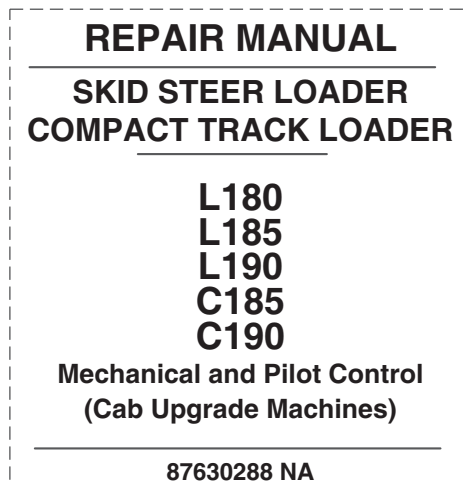
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



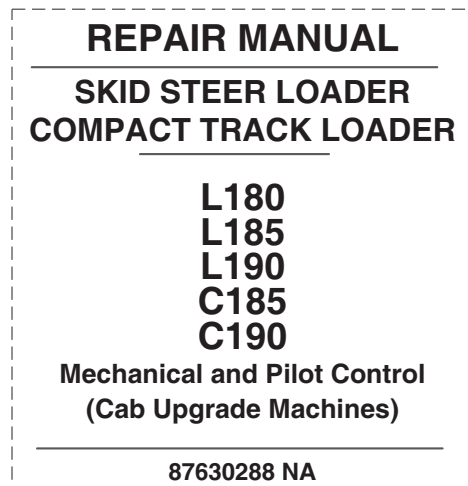
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REPAIR MANUAL



C185

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INTRODUCTION

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Basic instructions

Technical Information

This manual has been produced by a new technical information system. This new system is designed to deliver technical information electronically through CDROM and in paper manuals. A coding system called ICE has been developed to link the technical information to other Product Support functions e.g. Warranty.

Technical information is written to support the maintenance and service of the functions or systems on a customers machine. When a customer has a concern on his machine it is usually because a function or system on his machine is not working at all, is not working efficiently, or is not responding correctly to his commands. When you refer to the technical information in this manual to resolve that customers concern, you will find all the information classified using the new ICE coding, according to the functions or systems on that machine. Once you have located the technical information for that function or system then you will find all the mechanical, electrical or hydraulic devices, components, assemblies and sub-assemblies for that function or system. You will also find all the types of information that have been written for that function or system, the technical data (specifications), the functional data (how it works), the diagnostic data (fault codes and troubleshooting) and the service data (remove, install adjust, etc.).

By integrating this new ICE coding into technical information , you will be able to search and retrieve just the right piece of technical information you need to resolve that customers concern on his machine. This is made possible by attaching 3 categories to each piece of technical information during the authoring process.

The first category is the Location, the second category is the Information Type and the third category is the Product:

- **LOCATION** - is the component or function on the machine, that the piece of technical information is going to describe e.g. Fuel tank.
- **INFORMATION TYPE** - is the piece of technical information that has been written for a particular component or function on the machine e.g. Capacity would be a type of Technical Data that would describe the amount of fuel held by the Fuel tank.
- **PRODUCT** - is the model that the piece of technical information is written for.

Every piece of technical information will have those 3 categories attached to it. You will be able to use any combination of those categories to find the right piece of technical information you need to resolve that customers concern on his machine.

That information could be:

- the description of how to remove the cylinder head
- a table of specifications for a hydraulic pump
- a fault code
- a troubleshooting table
- a special tool

How to Use this Manual

This manual is divided into Sections. Each Section is then divided into Chapters. Contents pages are included at the beginning of the manual, then inside every Section and inside every Chapter. An alphabetical Index is included at the end of a Chapter. Page number references are included for every piece of technical information listed in the Chapter Contents or Chapter Index.

Each Chapter is divided into four Information types:

- **(D) Technical Data** (specifications) for all the mechanical, electrical or hydraulic devices, components and, assemblies.
- **(C) Functional Data** (how it works) for all the mechanical, electrical or hydraulic devices, components and assemblies.
- **(G) Diagnostic Data** (fault codes, electrical and hydraulic troubleshooting) for all the mechanical, electrical or hydraulic devices, components and assemblies.

- **(F)** Service data (remove disassembly, assemble, install) for all the mechanical, electrical or hydraulic devices, components and assemblies.

Sections

Sections are grouped according to the main functions or a systems on the machine. Each Section is identified by a letter A, B, C etc. The amount of Sections included in the manual will depend on the type and function of the machine that the manual is written for. Each Section has a Contents page listed in alphabetic/numeric order. This table illustrates which Sections could be included in a manual for a particular product.

PRODUCT	SECTION										
	A - Distribution Systems										
	B - Power Production										
	C - Power Train										
	D - Travelling										
	E - Body and Structure										
	F - Frame Positioning										
	G - Tool Positioning										
	H - Working Arm										
	J - Tools and Couplers										
	K - Crop Processing										
	L - Field Processing										
Tractors	X	X	X	X	X	X	X	X	X		
Vehicles with working arms: backhoes, excavators, skid steers,	X	X	X	X	X	X	X	X	X		
Combines, forage harvesters, balers,	X	X	X	X	X	X	X	X	X	X	
Seeding, planting, floating, spraying equipment,	X	X	X	X	X	X	X		X		X
Mounted equipment and tools,					X	X	X		X		

Chapters

Each Chapter is identified by a letter and number combination e.g. Engine B.10.A The first letter is identical to the Section letter i.e. Chapter B.10 is inside Section B, Power Production.

CONTENTS

The Chapter Contents lists all the **(D)** technical data (specifications), **(C)** functional data (how it works), **(F)** service data (remove, install adjust, etc..) and **(G)** diagnostic data (fault codes and troubleshooting) that have been written in that Chapter for that function or system on the machine.

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ENGINE - Troubleshooting (B.10.A - G.40.A.10)	6

INDEX

The Chapter Index lists in alphabetical order all the types of information (called Information Units) that have been written in that Chapter for that function or system on the machine.

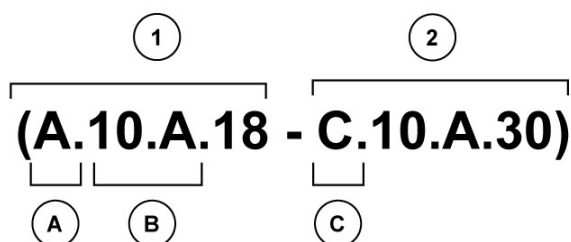
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POWER PRODUCTION - B ENGINE		
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Information Units and Information Search

Each chapter is composed of information units. Each information unit has the ICE code shown in parentheses which indicates the function and the type of information written in that information unit. Each information unit has a page reference within that Chapter. The information units provide a quick and easy way to find just the right piece of technical information you are looking for.

example information unit	Stack valve - Sectional View (A.10.A.18 - C.10.A.30)					
Information Unit ICE code	A	10.A	18	C	10.A.30	
ICE code classification	Distribution systems	Primary hydraulic power	Stack valve	Functional data	Sectional view	



CRIL03J033E01 1

Navigate to the correct information unit you are searching for by identifying the function and information type from the ICE code.

- **(1)** Function and **(2)** Information type.
- **(A)** corresponds to the sections of the repair manual.
(B) corresponds to the chapters of the repair manual.
(C) corresponds to the type of information listed in the chapter contents, **(D)** Technical data, **(C)** Functional Data, **(G)** Diagnostic or **(F)** Service.
(A) and **(B)** are also shown in the page numbering on the page footer.
THE REST OF THE CODING IS NOT LISTED IN ALPHA-NUMERIC ORDER IN THIS MANUAL.
- You will find a table of contents at the beginning and end of each section and chapter.
You will find an alphabetical index at the end of each chapter.
- By referring to **(A)**, **(B)** and **(C)** of the coding, you can follow the contents or index (page numbers) and quickly find the information you are looking for.

Page Header and Footer

The page header will contain the following references:

- Section and Chapter description

The page footer will contain the following references:





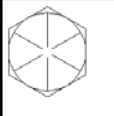




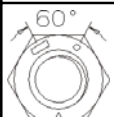

- Publication number for that Manual, Section or Chapter.
- Version reference for that publication.
- Publication date
- Section, chapter and page reference e.g. A.10.A / 9

Torque

BOLT TORQUE INFORMATION

DECIMAL HARDWARE

1. Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.
2. Make sure the fasteners threads are clean and that thread engagement is started. This will prevent them from failing when being tightened.
3. Tighten plastic insert or crimped steel-type lock nuts to approximately **50 %** of the dry torque, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.
4. The L9 (Alloy) fasteners torque values are for a bolt, nut, and two washers.
When using L9 (Alloy) fasteners, do not use the values in this table for tapped holes.

GRADE							
	1 or 2	5	5.1	5.2	8	8.2	L9 (Alloy)
SAE Markings for Bolts and Cap Screws							
SAE Markings for Hex Nuts							

SIZE	GRADE 2 *				GRADE 5, 5.1 or 5.2				GRADE 8 or 8.2				GRADE L9 (Alloy)			
	Dry **		Lubricated **		Dry**		Lubricated **		Dry**		Lubricated **		Head		Nut	
	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft
1/4 UNF	7.5	5.5	5.7	4.2	10.8	8	8.5	6.3	16.3	12	12.2	9	13.6	10	14.9	11
1/4 UNC	8.5	6.3	6.4	4.7	13.6	10	9.8	7.2	19	14	13.6	10	16.3	12	17.6	13
5/16 UNF	15	11	11	8	23	17	18	13	33	24	24	18	26	19	28	21
5/16 UNC	16	12	12	9	26	19	19	14	37	27	27	20	27	20	31	23
3/8 UNF	27	20	20	15	41	30	31	23	61	45	47	35	41	30	45	33
3/8 UNC	31	23	23	17	47	35	34	25	68	50	47	35	47	35	52	38
7/16 UNF	43	32	33	24	68	50	47	35	95	70	68	50	75	55	81	60
7/16 UNC	49	36	37	27	75	55	54	40	108	80	81	60	81	60	88	65
1/2 UNF	68	50	47	35	102	75	75	55	149	110	108	80	115	85	129	95
1/2 UNC	75	55	54	40	115	85	88	65	163	120	122	90	129	95	142	105
9/16 UNF	95	70	75	55	149	110	108	80	203	150	149	110	163	120	190	140
9/16 UNC	108	80	81	60	163	120	122	90	231	170	176	130	183	135	203	150
5/8 UNF	136	100	102	75	203	150	149	110	285	210	217	160	231	170	251	185

INTRODUCTION


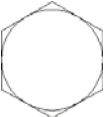
	GRADE 2 *				GRADE 5, 5.1 or 5.2				GRADE 8 or 8.2				GRADE L9 (Alloy)			
	Dry **		Lubricated **		Dry**		Lubricated **		Dry**		Lubricated **		Head		Nut	
SIZE	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft
5/8 UNC	149	110	115	85	231	170	176	130	325	240	244	180	258	190	278	205
3/4 UNF	237	175	176	130	353	260	271	200	515	380	380	280	359	265	393	290
3/4 UNC	271	200	190	140	407	300	298	220	570	420	420	310	447	330	481	355
7/8 UNF	231	170	170	125	583	430	434	320	814	600	610	450	644	475	685	505
7/8 UNC	244	180	190	140	637	470	475	350	909	670	678	500	705	520	793	585
1 UNF	339	250	258	190	868	640	651	480	1234	910	922	680	746	550	1051	775
1 UNC	380	280	285	210	976	720	732	540	1383	1020	1031	760	949	700	1220	900
1-1/8 UNF	475	350	366	270	1071	790	800	590	1749	1290	1315	970	1390	1025	1559	1150
1-1/8 UNC	542	400	407	300	1207	890	909	670	1953	1440	1464	1080	1559	1150	1797	1325
1-1/4 UNF	678	500	515	380	1519	1120	1139	840	2468	1820	1844	1360	1898	1400	2170	1600
1-1/4 UNC	746	550	570	420	1681	1240	1261	930	2726	2010	2048	1510	2170	1600	2373	1750
1-1/2 UNF	1180	870	881	650	2644	1950	1980	1460	4285	3160	3214	2370	3932	2900	4407	3250
1-1/2 UNC	1329	980	990	730	2983	2200	2224	1640	4827	3560	3621	2670	4475	3300	4949	3650

IMPORTANT: DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically. Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

NOTES

- * - Grade 2 applies for hex caps (not hex bolts) up to **152 mm (6 in)** long. Grade 1 applies for hex cap screws over **152 mm (6 in)** long, and for all other types of bolts and screws of any length.
- ** - "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plained or zinc plated without any lubrication.

TORQUE SPECIFICATIONS - METRIC HARDWARE


GRADE 8.8 Bolts, Nuts and Studs				GRADE 10.9 Bolts, Nuts and Studs		
Dry				Dry		
SIZE	Nm	lb/in	lb/ft	Nm	lb/in	lb/ft
						
M4	3 to 4	31 to 35		5 to 6	44 to 49	
M5	5 to 6	49 to 55		8 to 9	71 to 79	
M6	10 to 11	84 to 94		14 to 15	120 to 136	
M8	23 to 26	229 to 277		33 to 37	293 to 329	
M10	46 to 51	408 to 460		65 to 74		48 to 54
M12	80 to 90		59 to 66	114 to 128		85 to 94
M14	128 to 145		94 to 106	183 to 205		136 to 153
M16	200 to 220		149 to 161	285 to 320		208 to 235
M20	400 to 450		293 to 330	555 to 620		406 to 460
M24	690 to 780		510 to 575	955 to 1075		705 to 790

INTRODUCTION

GRADE 8.8 Bolts, Nuts and Studs				GRADE 10.9 Bolts, Nuts and Studs		
Dry				Dry		
SIZE	Nm	lb/in	lb/ft	Nm	lb/in	lb/ft
M30	1375 to 1545		1010 to 1140	1900 to 2140		1400 to 1580
M36	2400 to 2700		1770 to 1990	3315 to 3730		2445 to 2750

Use the above torques when specifications are not given.

These values apply to fasteners with both coarse and fine threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or Molydisulfide grease or oil is used. Use of a click type torque wrench, or better is required.

Grade 12.9 Bolts, Nuts, and Studs


Usually torque values specified to grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

37 Degree Flare Fitting						
Nom. SAE Dash Size	Tube OD/Hose ID		Thread Size	Newton metres	lb/in	lb/ft
-2			5/16 - 24	8 to 9	72 to 84	
-3			3/8 - 24	11 to 12	96 to 108	
-4	6.4 mm	1/4 inch	7/16 - 20	14 to 16	120 to 144	
-5	7.9 mm	5/16 inch	1/2 - 20	18 to 21	156 to 192	
-6	9.5 mm	3/8 inch	9/16 - 18	27 to 33	240 to 300	
-8	12.7 mm	1/2 inch	3/4 - 16	46 - 56	408 to 504	
-10	15.9 mm	5/8 inch	7/8 - 14	77 to 85	684 to 756	
-12	19.0 mm	3/4 inch	1-1/16 - 12	107 to 119		79 to 88
-14	22.2 mm	7/8 inch	1-3/16 - 12	127 to 140		94 to 103
-16	25.4 mm	1.0 inch	1-5/16 - 12	131 to 156		97 to 117
-20	31.8 mm	1-1/4 inch	1-5/8 - 12	197 to 223		145 to 165
-24	38.1 mm	1-1/2 inch	1-7/8 - 12	312 to 338		230 to 250

Straight Thread with O-ring						
Nom. SAE Dash Size	Tube OD/Hose ID		Thread Size	Newton metres	lb/in	lb/ft
-2			5/16 - 24	8 to 9	72 to 84	
-3			3/8 - 24	11 to 12	96 to 108	
-4	6.4 mm	1/4 inch	7/16 - 20	20 to 25	180 to 228	
-5	7.9 mm	5/16 inch	1/2 - 20	27 to 33	240 to 300	
-6	9.5 mm	3/8 inch	9/16 - 18	43 to 54	384 to 480	
-8	12.7 mm	1/2 inch	3/4 - 16	73 to 90	648 to 804	
-10	15.9 mm	5/8 inch	7/8 - 14	100 to 124		74 to 92
-12	19.0 mm	3/4 inch	1-1/16 - 12	138 to 173		102 to 128
-14	22.2 mm	7/8 inch	1-3/16 - 12	173 to 216		128 to 160
-16	25.4 mm	1.0 inch	1-5/16 - 12	203 to 253		150 to 187
-20	31.8 mm	1-1/4 inch	1-5/8 - 12	308 to 357		227 to 264
-24	38.1 mm	1-1/2 inch	1-7/8 - 12	492 to 542		363 to 400

Split Flange Mounting Bolts			
Size	Newton metres	lb/in	lb/ft
5/16 - 18	20 to 27	180 to 240	
3/8 - 16	27 to 34	240 to 300	
7/16 - 14	47 to 61	420 to 540	
1/2 - 13	74 to 88		55 to 65
5/8 - 11	190 to 203		140 to 150

INTRODUCTION

O-Ring Face Seal End						
Nom. SAE Dash Size	Tube OD		Thread Size	Newton metres	lb/in	lb/ft
-4	6.4 mm	1/4 inch	9/16 - 18	23 to 26	204 to 228	
-6	9.5 mm	3/8 inch	11/16 - 16	34 to 40	300 to 348	
-8	12.7 mm	1/2 inch	13/16 - 16	52 to 57	456 to 504	
-10	15.9 mm	5/8 inch	1-14	81 to 90	720 to 792	
-12	19.0 mm	3/4 inch	1-3/16 - 12	117 to 128		86 to 94
-16	25.4 mm	1.0 inch	1-7/16 - 12	152 to 174		112 to 128
-20	31.8 mm	1-1/4 inch	1-11/16 - 12	179 to 201		132 to 148
-24	38.1 mm	1-1/2 inch	2 - 12	213 to 235		157 to 173

O-Ring Boss End Fitting or Lock Nut				
Nom. SAE Dash Size	Thread Size	Newton metres	lb/in	lb/ft
-6	9/16 - 18	48 to 54	432 to 480	
-8	3/4 - 16	70 to 78	612 to 684	
-10	7/8 - 14	102 to 114		75 to 84
-12	1-1/16 - 12	142 to 160		105 to 117
-16	1-5/16 - 12	237 to 254		175 to 187

Pipe Fitting		
Nom. SAE Dash Size	Thread Size	TFFT (Turns For Finger Tight)
-2	1/8 - 27	2.0 - 3.0
-3	1/8 - 27	2.0 - 3.0
-4	1/8 - 27	2.0 - 3.0
-5	1/8 - 27	2.0 - 3.0
-6	1/4 - 18	1.5 - 3.0
-8	3/8 - 18	2.0 - 3.0
-10	1/2 - 14	2.0 - 3.0
-12	3/4 - 14	2.0 - 3.0
-14	3/4 - 14	2.0 - 3.0
-16	1 - 11-1/2	1.5 - 2.5
-20	1-1/4 - 11-1/2	1.5 - 2.5
-24	1-1/2 - 11-1/2	1.5 - 2.5
-32	2 - 11-1/2	1.5 - 2.5

NOTE: Apply sealant/lubricant to male pipe threads. The first two threads should be left uncovered to avoid system contamination. Screw pipe fitting into female pipe port to the finger tight position. Wrench tighten fitting to the appropriate turns from finger tight (TFFT) shown in table above, making sure the tube end of an elbow or tee fitting is aligned to receive incoming tube or hose fitting.

Conversion factors

Metric to U.S.			
	MULTIPLY	BY	TO OBTAIN
AREA:	square meter hectare	10.763 91 2.471 05	square foot acre
FORCE:	newton newton	3.596 942 2.224 809	ounce force pound force
LENGTH:	millimeter meter kilometer	0.039 370 3.280 840 0.621 371	inch foot mile
MASS:	kilogram	2.204 622	pound
MASS/AREA:	kilogram/hectare	0.000 466	ton/acre
MASS/ENERGY:	gr/kW/hr.	0.001 644	lbs/hp/hr.
MASS/VOLUME:	kg/cubic meter	1.685 555	lb/cubic yd.
POWER:	kilowatt	1.341 02	horsepower
PRESSURE:	kilopascal bar	0.145 038 14.50385	lb/sq. inch lb/sq. inch
TEMPERATURE:	degree C	1.8 x C +32	degree F
TORQUE:	newton meter newton meter	8.850 748 0.737 562	lb/inch lb/foot
VELOCITY:	kilometer/hr.	0.621 371	miles/hr.
VOLUME:	cubic centimeter cubic meter cubic meter milliliter litre litre litre litre	0.061 024 35.314 66 1.307 950 0.033 814 1.056 814 0.879 877 0.264 172 0.219 969	cubic inch cubic foot cubic yd. ounce (US fluid) quart (US liquid) quart (Imperial) gallon (US liquid) gallon (Imperial)
VOLUME/TIME:	litre/min. litre/min.	0.264 172 0.219 969	gallon/min. (US liquid) gallon/min. (Imperial)

U.S. to Metric			
	MULTIPLY	BY	TO OBTAIN
AREA:	square foot acre	0.092 903 0.404 686	square meter hectare
FORCE:	ounce force pound force	0.278 014 4.448 222	newton newton
LENGTH:	inch foot mile	25.4 * 0.304 8 * 1.609 344 *	millimeter meter kilometer
MASS:	pound ounce	0.453 592 28.35	kilogram gram
MASS/AREA:	ton/acre	2241 702	kilogram/hectare
MASS/ENERGY:	lb/hp/hr	608.277 4	gr/kW/hr
MASS/VOLUME:	lb/cubic yd.	0.593 276	kg/cubic meter
POWER:	horsepower	0.745 700	kilowatt
PRESSURE:	lbs/sq. in lbs/sq. in lbs/sq. in	6.894 757 0.069 0.070 303	kilopascal bar kg/sq. cm
TEMPERATURE:	degree F	1.8 F - 32	degree C
TORQUE:	pound/inch pound/foot	0.112 985 1.355 818	newton meter newton meter
VELOCITY:	miles/hr.	1.609 344 *	kilometer/hr.

INTRODUCTION

U.S. to Metric			
	MULTIPLY	BY	TO OBTAIN
VOLUME:	cubic inch	16.387 06	cubic centimeter
	cubic foot	0.028 317	cubic meter
	cubic yard	0.764.555	cubic meter
	ounce (US fluid)	29.573 53	milliliter
	quart (US liquid)	0.946 353	litre
	quart (Imperial)	1.136 523	litre
	gallon (US)	3.785 412	litre
	gallon (Imperial)	4.546 092	litre
VOLUME/TIME:	gallon/min.	3.785 412	litre/min.

REPAIR MANUAL

DISTRIBUTION SYSTEMS



C185
C190
L180
L185
L190

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HIGH-FLOW HYDRAULIC POWER SYSTEM C185 , C190 , L180 , L185 , L190	A.16.A
ELECTRICAL POWER SYSTEM C185 , C190 , L180 , L185 , L190	A.30.A
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DISTRIBUTION SYSTEMS - A

PRIMARY HYDRAULIC POWER SYSTEM - 10.A

C185

C190

L180

L185

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DISTRIBUTION SYSTEMS - A

PRIMARY HYDRAULIC POWER SYSTEM - 10.A

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PRIMARY HYDRAULIC POWER SYSTEM - Capacity

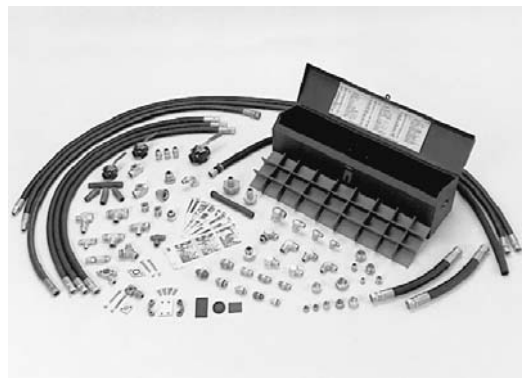
Hydraulic System	
Capacity - System	57 L (14.8 US gal)

PRIMARY HYDRAULIC POWER SYSTEM - Special tools



CAS10280 1

CAS - 10280 Flowmeter



CAS1808 2

CAS-1808 Flowmeter Fitting Kit



CAS10090 3

CAS-10090 Hand Pump



B877558M_1 4

CAS-1804 Pressure Test Fitting Kit

PRIMARY HYDRAULIC POWER SYSTEM - General specification

Hydraulic System Oil	Type of Oil	Capacity
Total System	NEW HOLLAND AMBRA AUTO SUPREME SAE 10W-30	57 L (14.8 US gal)
Chain Tank (L180 and L185 Machines)	NEW HOLLAND AMBRA AUTO SUPREME SAE 10W-30	Each Side 10.1 L (10.7 US qt)
Chain Tank (L190 Machines)	NEW HOLLAND AMBRA AUTO SUPREME SAE 10W-30	Each Side 12.3 L (13 US qt)

Relief valve - General specification

Loader Control Valve Main Relief Pressure Settings	
Main Relief Pressure at 20 gpm	
L180, L185 and L190 Machines	
20,498 kPa (205 bar) (2975 -50/+140 psi) at 2300 rpm	
C185 and C190 Machines	
20,500 kPa (205 bar) (2975 psi) at 2300 rpm	

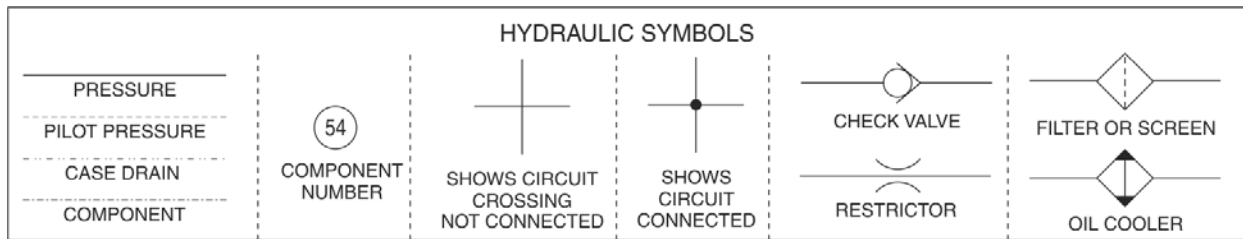
Hydraulic pump - General specification

Hydraulic Pump	
Type	Gear
Displacement (Per Revolution) L180 - L185 - C185 Machines	31.8 cc (1.94 in ³)
Flow at Engine Rated rpm at 100% Volumetric Efficiency L180 - L185 - C185 Machines	73.1 L/min (19.3 US gpm)
Displacement (Per Revolution) L190 and C190 Machines	36.05 cc (2.20 in ³)
Flow at Engine Rated rpm at 100% Volumetric Efficiency L190 and C190 Machines	82.9 L/min (21.9 US gpm)
Pump to Engine Speed (All Models)	Ratio 1:1

Filter by-pass - General specification

Return Filter	
Bypass Pressure	345 kPa (50 psi)

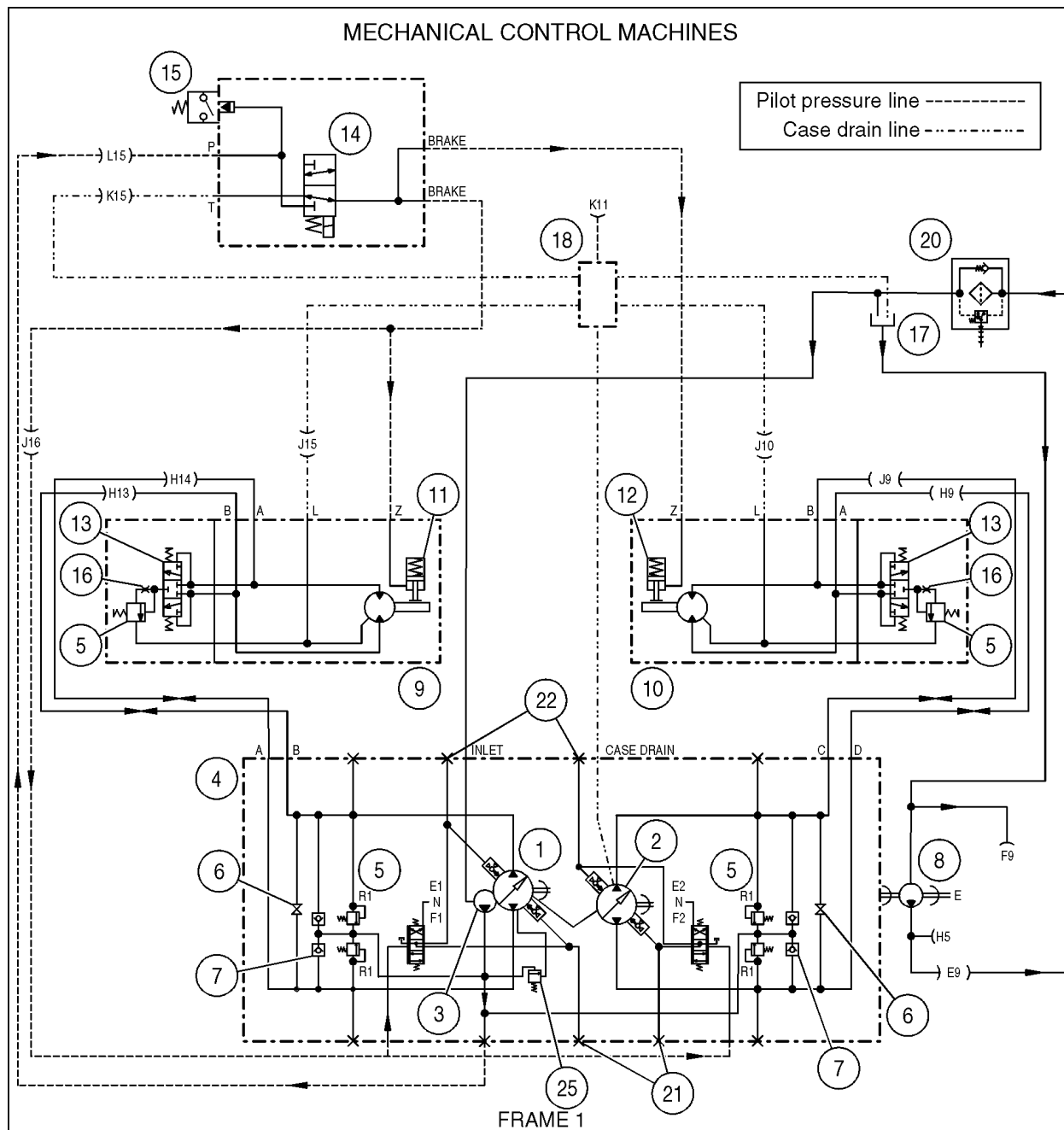
PRIMARY HYDRAULIC POWER SYSTEM - Identification



bs05e050 1

PRIMARY HYDRAULIC POWER SYSTEM - Hydraulic schematic frame 01

(Mechanical Control Machines)



BC06J471-01A 1

BC06J471-01A

1. Left piston pump	9. Left drive motor	17. Hydraulic reservoir
2. Right piston pump	10. Right drive motor	18. Drain manifold
3. Charge pump	11. Left brake	20. Oil Cooler Bypass valve
4. Hydrostatic pump	12. Right brake	21. Backup alarm switch ports
5. Circuit relief valve	13. Flushing valve	22. Brake light switch ports
6. Tow valve	14. Brake solenoid valve	25. Main relief valve

Sample of manual. Download All 1069 pages at:

<https://www.arepairmanual.com/downloads/new-holland-l180-l185-l190-c185-c190-loader-service-repair-manual/>